Index of Claims

Application/Control No.

09/938,265

Examiner

Johnna R. Loftis

Applicant(s)/Patent under Reexamination

THIELGES ET AL.

Art Unit

3623

√ Rejected
= Allowed

- (Through numeral)
Cancelled

Restricted

Non-Elected

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| Cla            | Date   |                                       |          |              |                |  |  |          |          |                |
|----------------|--|---------------------------------------|----------|--------------|----------------|--|--|----------|----------|----------------|
| Final          | Original   | 90/5/9                                |          |              |                |  |  |          |          |                |
| ن <u>آ</u><br> |  | 5/2                                   |          |              |                |  |  |          |          |                |
|                | 1  | Ļ.,                                   |          | ļ            | <u> </u>       | ㄴ  | $oxed{oxed}$                                     |          | ╙        | 上              |
|                | 1<br>2<br>3<br>4<br>5<br>6   | <u> </u>                              |          | _            | _              | <u> </u>   | <u> </u>   | L        | L        | _              |
|                | 3  |                                       |          |              | L              |  | <u> </u>   |          | <u> </u> | <u> </u>       |
|                | 4  | <u> </u>                              | 匚        |              | 匚              | ┖  | ┖  | L        | <u>L</u> | <u> </u>       |
|                | 5  | <u> </u>                              | _        | ╙            | _              | ┖  | <u>L</u>   | L        | ┖        | L              |
|                | 6  |                                       | _        | 乚            | ┖              |  | L  | ļ        | L.       | _              |
|                | 7  | <u> </u>                              | _        |              | Ļ_             | L  | 匚  | <u> </u> | _        | <u> </u>       |
|                | 8  | √                                     | <u> </u> | _            | <u> </u>       | <u> </u>   | <u> </u>   | L        | ┖        | <u> </u>       |
|                | 9  | Į√                                    | _        | L            | ļ              | <u> </u>   | L_   | ╙        | ┡        | ļ.,            |
|                | 10   | 1                                     | <u> </u> | <u> </u>     | <u> </u>       | <u> </u>   | ┢  | _        | -        | ┞              |
|                | 11   | 1                                     | ┡        | _            | ⊢              | <u> </u>   | <u> </u>   |          | <b>├</b> | <u> </u>       |
|                | 12   | 14                                    | ⊢        | $\vdash$     | ├              | ⊬  | $\vdash$   | $\vdash$ | $\vdash$ | Ь              |
|                | 8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22<br>23<br>24 | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | ⊢        | ⊢            | <del> </del>   | $\vdash$   | $\vdash$   | ├        | -        | $\vdash$       |
|                | 14   | 1                                     |          | ⊢            | ┢              | ┢  | _  | ┢        | ⊬        | ⊢              |
|                | 16   | \ \ \                                 |          | ├            | ┝              | ⊢  | -  | -        | ┢        |                |
|                | 17   | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ |          |              | ┝              | ⊢  | ┝  | $\vdash$ | ⊢        | $\vdash$       |
|                | 18   | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | -        | ┝            | ┝              | ├  | ⊢  | $\vdash$ | ⊢        | $\vdash$       |
|                | 19   | \ \ /                                 | -        | ┢            | ┢              | $\vdash$   | ⊢  | ┝        | ┢        |                |
|                | 20   | 1/                                    |          | <del> </del> | <del>  -</del> | ┢╌   | ┢  | ╁        | ╁        |                |
|                | 21   | 1/                                    | H        | $\vdash$     | -              | $\vdash$   | H  |          | -        |                |
|                | 22   | <b>  `</b>                            | $\vdash$ | _            |                | $\vdash$   | <del>                                     </del> |          | t        |                |
|                | 23   | Т                                     | $\vdash$ |              | Н              | <del>                                     </del> |  | $\vdash$ | Т        |                |
|                | 24   | Г                                     |          | İ            | Ι-             | _  |  |          |          |                |
|                | 25<br>26<br>27   |                                       |          |              |                |  |  |          |          |                |
|                | 26   |                                       |          |              |                |  |  |          |          |                |
|                | 27   |                                       |          |              |                |  | $oxed{oxed}$                                     | L        |          |                |
|                | 28<br>29   |                                       |          | L            | <u> </u>       | <u> </u>   |  | L        | 乚        | Ш              |
|                | 29   |                                       |          |              | _              | L.   |  |          |          | Ш              |
|                | 30   | L.                                    |          | _            | <u> </u>       | _  |  |          | ļ        | Ш              |
|                | 31<br>32   | _                                     |          | _            |                | _  |  | <u> </u> | ┞        | <u> </u>       |
|                | 32   |                                       | <u> </u> | <u> </u>     | _              | _  |  | <u> </u> |          | Н              |
|                | 33<br>34<br>35   | $\vdash$                              | H        | <u> </u>     | ⊢              | ├-   | $\vdash$   | _        | ├-       | $\vdash$       |
|                | 35   | -                                     | -        | <u> </u>     | $\vdash$       | ├  | $\vdash$   | -        | $\vdash$ | ├┤             |
| $\dashv$       | 36   | -                                     |          | <u> </u>     | -              | <del> </del>                                     | -  |          | $\vdash$ | $\vdash\vdash$ |
|                | 36<br>37   | $\vdash$                              |          | <u> </u>     | -              | $\vdash$   | -  | _        | $\vdash$ | $\vdash$       |
|                | 38   | H                                     |          |              | -              | <del> </del>                                     | $\vdash$   | -        | $\vdash$ | $\vdash\vdash$ |
|                | 39   | H                                     |          |              | H              |  | Η-   |          | $\vdash$ | $\vdash$       |
|                | 40   | H                                     |          | Т            | H              | Н  | ┢  | $\vdash$ | ┢        | Н              |
|                | 41   | П                                     |          |              | Т              | Г  |  | $\vdash$ | $\vdash$ | Н              |
|                | 42   | 1                                     |          |              |                | Т  |  |          |          | Н              |
| $\neg$         | 43   | <b>✓</b>                              |          |              | _              |  |  |          |          | М              |
|                | 44   | V                                     |          |              |                |  |  |          | Г        | П              |
|                | 45   | >                                     |          |              |                |  |  |          |          |                |
|                | 46   | 7                                     |          |              |                |  |  |          |          |                |
|                | 47   | >                                     |          |              |                |  |  |          |          |                |
| ]              | 48   | ✓                                     |          |              |                |  |  |          | Ĺ        |                |
| $\Box$         | 49   | 7                                     | ]        |              |                |  |  |          |          |                |
| T              | 50   | J                                     |          |              |                |  |  |          |          |                |

|          |          |                  |   |          |                | <u></u>    |          |                                     |          |          |
|----------|----------|------------------|---|----------|----------------|------------|----------|-------------------------------------|----------|----------|
| Cla      | aim      |                  |   | ,        | <del>,  </del> | <u>Dat</u> | e        | ,                                   | _        | -        |
| Final    | Original | 90/5/9           |   |          |                |            |          |                                     |          |          |
|          | 51       | J                | _ | 1        | 1              | Т          |          | Т                                   | ┪        |          |
|          | 52       | Ì                |   | T        | T              | <b>—</b>   | T        |                                     | <u> </u> | T        |
|          | 52<br>53 | Ĭ                |   | T        | T              | -          | ┢        |                                     |          | 十一       |
|          | 54       | \<br>\<br>\<br>\ | _ |          |                |            |          |                                     | $\vdash$ | T        |
|          | 55       | V                |   |          | ┢              | T          |          | T                                   |          | Ħ        |
|          | 56       | √<br>√           |   |          | T              | T          |          | <u> </u>                            | t        | i –      |
|          | 57       | Ė                |   | Г        | Т              | T          |          |                                     | f        | 1        |
|          | 58       |                  |   | Ī        |                |            | Π        | Г                                   | П        | Г        |
|          | 59       |                  |   |          | Γ              | Π          |          |                                     |          | İ        |
|          | 60       |                  |   | Г        | Γ              | П          |          |                                     |          | Î        |
|          | 61       |                  |   |          |                |            |          |                                     |          |          |
|          | 62       |                  |   |          |                | Π          |          |                                     | Π        |          |
|          | 63       |                  |   |          |                |            |          |                                     |          |          |
|          | 64       | L                |   |          |                |            |          | L                                   |          |          |
|          | 65       |                  |   | _        | 乚              | 乚          | <u> </u> | L                                   |          | L        |
|          | 66       | $oxed{oxed}$     |   | <u> </u> | Ļ              |            |          | <u> </u>                            | L        | _        |
|          | 67       | $\vdash$         | _ | L        | L              | <u> </u>   | L        | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | _        | <u> </u> |
| -        | 68       |                  |   | <u> </u> | <u> </u>       | L          | ļ        | _                                   | <u> </u> | _        |
|          | 69       |                  |   | L        | <del> </del>   | ⊢          | <u> </u> | _                                   | _        | ļ        |
|          | 70<br>71 | _                |   | -        | ├              | <u> </u>   | $\vdash$ | <u> </u>                            | <u> </u> |          |
| -        | 71       |                  |   | ļ        | ⊢              | ├          | ├        | ├                                   |          | L        |
| <b>—</b> | 72<br>73 |                  |   | _        |                | ├-         | $\vdash$ | ⊢                                   | ⊢        | ⊢        |
|          | 74       | Н                |   | ┝        | ├              | ⊢          | -        | ├                                   | ┢┈       | ⊢        |
| -        | 75       |                  | - |          | $\vdash$       | -          | -        | $\vdash$                            | -        |          |
| -        | 76       |                  |   |          | <del> </del>   | -          | ┢        | -                                   | ┢        | -        |
|          | 77       |                  |   | ┢┈       | $\vdash$       |            | _        | $\vdash$                            | -        |          |
|          | 77<br>78 |                  |   | $\vdash$ | ╁              | ┢          | t        |                                     | 1        | H        |
|          | 79       |                  |   |          |                | Ι-         |          | $\vdash$                            |          |          |
|          | 80       |                  |   |          |                |            |          | Г                                   | $\vdash$ | Г        |
|          | 81       |                  |   |          |                |            |          |                                     |          |          |
|          | 82       |                  |   |          |                |            |          |                                     |          |          |
|          | 83       |                  |   |          |                |            |          |                                     |          |          |
|          | 84       |                  |   |          |                |            |          | Ĺ                                   |          |          |
|          | 85       |                  |   |          | <u> </u>       |            |          |                                     | L        | L        |
| $\sqcup$ | 86       |                  |   |          | 匚              | L          |          |                                     |          |          |
| $\vdash$ | 87       |                  |   |          | ╙              |            | _        |                                     |          | L.       |
|          | 88       |                  |   |          | ļ.,            |            |          | ļ                                   | <u> </u> | <u> </u> |
| $\vdash$ | 89       |                  |   |          | _              | <u> </u>   | <u> </u> |                                     | <u> </u> | <u> </u> |
| $\vdash$ | 90       | -                |   |          |                | ┝          | ┝        | ┝                                   | -        | L        |
| -        | 91       | $\dashv$         |   |          | -              | <u> </u>   | -        | -                                   | ⊢        | -        |
| H        | 93       | $\dashv$         | _ |          | ├              | $\vdash$   |          | H                                   | Ь—       | ⊢        |
| $\vdash$ | 94       |                  |   | _        | $\vdash$       | $\vdash$   | ⊢        | H                                   | ├        | $\vdash$ |
|          | 95       |                  |   | -        |                | $\vdash$   | ⊢        | $\vdash$                            | Η-       | $\vdash$ |
| $\vdash$ | 96       | $\dashv$         | _ |          | Н              | Н          | H        | $\vdash$                            |          | $\vdash$ |
|          | 97       | 7                | ᅦ |          | $\vdash$       | П          | П        | П                                   |          | -        |
|          | 98       | 寸                | _ |          | Г              |            |          |                                     |          | _        |
|          | 99       | ╛                |   |          |                |            |          |                                     |          |          |
|          | 100      |                  |   |          |                |            |          |                                     |          |          |

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| 102  |        | Original |          |          |          |          |              |              |          |          |          |  |
| 102  |        | 101      |          |          |          |          |              |              | T        |          | П        |  |
| 104   105   106   107   108   109   110   111   112   113   114   115   116   117   118   119   120   121   122   123   124   125   126   127   128   129   130   131   132   133   134   135   136   137   138   139   140   141   142   143   144   145   146   147   148   149   149   149   148   149   149   148   149   149   148   149   149   148   149   149   148   149   149   144   145   146   147   148   149  |        | 102      |          | Г        |          | Τ        |              |              | T        |          | $\Box$   |  |
| 104   105   106   107   108   109   110   111   112   113   114   115   116   117   118   119   120   121   122   123   124   125   126   127   128   129   130   131   132   133   134   135   136   137   138   139   140   141   142   143   144   145   146   147   148   149   149   149   148   149   149   148   149   149   148   149   149   148   149   149   148   149   149   144   145   146   147   148   149  |        | 103      |          |          |          | ·        | Г            |              | Γ        |          | П        |  |
| 105   106   107   108   109   110   111   112   113   114   115   116   117   118   119   120   121   122   123   124   125   126   127   128   129   130   131   132   133   134   135   136   137   138   139   140   141   142   143   144   145   146   147   148   149   148   149   148   149   148   149   148   149   148   149   148   149   148   149   148   149   148   149   140   141   142   148   149   148   149   149   148   149   149   148   149   149   148   149   149   148   149   149   148   149   149   148   149   149   148   149   149   140   141   142   143   144   145   146   147   148   149  |        | 104      |          |          |          |          |              |              |          | П        |          |  |
| 107  |        | 105      |          |          |          |          |              |              |          |          |          |  |
| 107  |        | 106      |          |          |          |          |              | Π            | Г        |          |          |  |
| 109 110 111 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 131 132 133 134 135 136 137 138 139 140 141 141 142 143 144 145 146 147 148  |        | 107      |          |          |          |          |              | L            |          | L        |          |  |
| 109 110 111 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 131 132 133 134 135 136 137 138 139 140 141 141 142 143 144 145 146 147 148  |        | 108      |          | _        |          |          |              |              | L        |          |          |  |
| 111         112         113         114         115         116         117         118         119         120         121         122         123         124         125         126         127         128         129         130         131         132         133         134         135         136         137         138         139         140         141         142         143         144         145         146         147         148  |        | 109      | _        | L        | L        | <u> </u> |              |              | L.       | <u> </u> | Ш        |  |
| 112         113         114         115         116         117         118         119         120         121         122         123         124         125         126         127         128         129         130         131         132         133         134         135         136         137         138         139         140         141         142         143         144         145         146         147         148         149  |        | 110      |          | _        | _        |          | <u> </u>     | _            | <u> </u> | _        | Ш        |  |
| 113         114         115         116         117         118         119         120         121         122         123         124         125         126         127         128         129         130         131         132         133         134         135         136         137         138         139         140         141         142         143         144         145         146         147         148         149  |        | 111      |          | _        |          | _        | <u> </u>     | _            | ┖        | _        | Ш        |  |
| 116         117         118         119         120         121         122         123         124         125         126         127         128         129         130         131         132         133         134         135         136         137         138         139         140         141         142         143         144         145         146         147         148         149  |        | 112      |          |          | <u> </u> | $\vdash$ | <u> </u>     |              | <u> </u> | Ь        | $\sqcup$ |  |
| 116         117         118         119         120         121         122         123         124         125         126         127         128         129         130         131         132         133         134         135         136         137         138         139         140         141         142         143         144         145         146         147         148         149  |        | 113      |          |          | <u> </u> | _        | ⊢            | <u> </u>     | <u> </u> | <u> </u> | Щ        |  |
| 116         117         118         119         120         121         122         123         124         125         126         127         128         129         130         131         132         133         134         135         136         137         138         139         140         141         142         143         144         145         146         147         148         149  |        | 114      |          | $\vdash$ | <u> </u> | <u> </u> | ⊢-           | <u> </u>     | ├        | ⊢        | Ш        |  |
| 117         118         119         120         121         122         123         124         125         126         127         128         129         130         131         132         133         134         135         136         137         138         139         140         141         142         143         144         145         146         147         148         149  |        | 115      |          |          | <u> </u> | <u> </u> | <u> </u>     | <u> </u>     | <u> </u> | $\vdash$ | Н        |  |
| 119       120       121       122       123       124       125       126       127       128       129       130       131       132       133       134       135       136       137       138       139       140       141       142       143       144       145       146       147       148       149  |        | 110      |          |          | ⊢        | ┝        | H            |              | <u> </u> | -        | Н        |  |
| 119       120       121       122       123       124       125       126       127       128       129       130       131       132       133       134       135       136       137       138       139       140       141       142       143       144       145       146       147       148       149  |        | 117      |          |          | ⊢        | ├─       | ⊢            |              | ⊢        |          | Н        |  |
| 120         121         122         123         124         125         126         127         128         129         130         131         132         133         134         135         136         137         138         139         140         141         142         143         144         145         146         147         148         149  |        | 110      |          |          | -        | ┝        | $\vdash$     | -            | $\vdash$ | ├        | $\vdash$ |  |
| 121         122         123         124         125         126         127         128         129         130         131         132         133         134         135         136         137         138         139         140         141         142         143         144         145         146         147         148         149  |        | 120      | -        | —        |          | ⊢        | $\vdash$     | -            | $\vdash$ | -        | Н        |  |
| 127<br>128<br>129<br>130<br>131<br>132<br>133<br>134<br>135<br>136<br>137<br>138<br>139<br>140<br>141<br>141<br>142<br>143<br>144<br>145<br>146<br>147<br>148  |        | 121      |          |          | _        | $\vdash$ | $\vdash$     | $\vdash$     | ┝        | -        | Н        |  |
| 127<br>128<br>129<br>130<br>131<br>132<br>133<br>134<br>135<br>136<br>137<br>138<br>139<br>140<br>141<br>141<br>142<br>143<br>144<br>145<br>146<br>147<br>148  |        | 122      |          | _        |          | -        | <del> </del> | $\vdash$     |          | $\vdash$ | H        |  |
| 127<br>128<br>129<br>130<br>131<br>132<br>133<br>134<br>135<br>136<br>137<br>138<br>139<br>140<br>141<br>141<br>142<br>143<br>144<br>145<br>146<br>147<br>148  |        | 123      |          |          |          |          |              | _            | $\vdash$ | $\vdash$ | Н        |  |
| 127<br>128<br>129<br>130<br>131<br>132<br>133<br>134<br>135<br>136<br>137<br>138<br>139<br>140<br>141<br>141<br>142<br>143<br>144<br>145<br>146<br>147<br>148  | _      | 124      |          | _        |          | $\vdash$ | $\vdash$     | ┢            | ┝╌       | _        | H        |  |
| 127<br>128<br>129<br>130<br>131<br>132<br>133<br>134<br>135<br>136<br>137<br>138<br>139<br>140<br>141<br>141<br>142<br>143<br>144<br>145<br>146<br>147<br>148  |        | 125      |          |          |          | _        | $\vdash$     | <del> </del> | $\vdash$ | $\vdash$ |          |  |
| 127<br>128<br>129<br>130<br>131<br>132<br>133<br>134<br>135<br>136<br>137<br>138<br>139<br>140<br>141<br>141<br>142<br>143<br>144<br>145<br>146<br>147<br>148  |        | 126      |          |          |          |          | <u> </u>     |              |          |          | $\Box$   |  |
| 134<br>135<br>136<br>137<br>138<br>139<br>140<br>141<br>142<br>143<br>144<br>145<br>146<br>147<br>148  |        | 127      |          |          |          |          | Г            |              |          |          |          |  |
| 134<br>135<br>136<br>137<br>138<br>139<br>140<br>141<br>142<br>143<br>144<br>145<br>146<br>147<br>148  |        | 128      |          |          |          |          |              |              |          |          |          |  |
| 134<br>135<br>136<br>137<br>138<br>139<br>140<br>141<br>142<br>143<br>144<br>145<br>146<br>147<br>148  |        | 129      |          |          |          |          |              |              |          |          |          |  |
| 134<br>135<br>136<br>137<br>138<br>139<br>140<br>141<br>142<br>143<br>144<br>145<br>146<br>147<br>148  |        | 130      |          |          |          |          |              |              |          |          |          |  |
| 134<br>135<br>136<br>137<br>138<br>139<br>140<br>141<br>142<br>143<br>144<br>145<br>146<br>147<br>148  |        | 131      |          |          |          |          |              |              |          |          |          |  |
| 134<br>135<br>136<br>137<br>138<br>139<br>140<br>141<br>142<br>143<br>144<br>145<br>146<br>147<br>148  |        | 132      |          |          |          |          |              | _            | L        | L_       | Ш        |  |
| 135<br>136<br>137<br>138<br>139<br>140<br>141<br>142<br>143<br>144<br>145<br>146<br>147<br>148   |        | 133      | _        |          |          |          |              | Ш            |          |          | Ц        |  |
| 137<br>138<br>139<br>140<br>141<br>142<br>143<br>144<br>145<br>146<br>147<br>148   |        | 134      | _        |          |          |          | _            |              |          | <u> </u> | Ш        |  |
| 137<br>138<br>139<br>140<br>141<br>142<br>143<br>144<br>145<br>146<br>147<br>148   |        | 135      | $\dashv$ |          |          |          | _            |              |          | <u> </u> | Н        |  |
| 138<br>139<br>140<br>141<br>142<br>143<br>144<br>145<br>146<br>147<br>148  |        | 130      |          |          |          |          | _            | _            | <u> </u> | _        | H        |  |
| 140<br>141<br>142<br>143<br>144<br>145<br>146<br>147<br>148  |        | 139      | $\dashv$ |          |          | _        |              | _            |          | -        | Н        |  |
| 140<br>141<br>142<br>143<br>144<br>145<br>146<br>147<br>148  |        | 130      | -        |          |          |          | _            |              |          |          | Н        |  |
| 141<br>142<br>143<br>144<br>145<br>146<br>147<br>148   |        | 140      | $\dashv$ |          |          |          |              |              |          |          | Н        |  |
| 142<br>143<br>144<br>145<br>146<br>147<br>148<br>149   |        | 444      | $\dashv$ | $\dashv$ |          | _        | $\vdash$     |              | -        |          | $\dashv$ |  |
| 143<br>144<br>145<br>146<br>147<br>148<br>149  |        |          | +        | $\dashv$ |          |          |              | $\vdash$     |          | $\vdash$ | $\vdash$ |  |
| 144  | $\neg$ |          | $\dashv$ | $\neg$   |          |          |              |              |          | $\vdash$ | $\dashv$ |  |
| 145<br>146<br>147<br>148<br>149  |        |          | 寸        | $\neg$   |          |          | $\vdash$     | _            |          | $\vdash$ | Н        |  |
| 146<br>147<br>148<br>149   |        | 145      | 一        | $\neg$   | $\dashv$ | -        | $\vdash$     | _            | $\vdash$ | $\vdash$ | Н        |  |
| 147<br>148<br>149  |        | 146      | 一        | $\neg$   |          |          |              |              |          |          | $\sqcap$ |  |
| 148  |        | 147      | 寸        | $\neg$   |          |          | $\Box$       |              |          |          | П        |  |
| 149  |        | 148      | 〓        |          |          |          |              |              |          |          | $\sqcap$ |  |
| 150  |        | 149      | コ        |          |          |          |              |              |          |          |          |  |
|  | $\Box$ | 150      | $\Box$   |          |          |          |              |              |          |          |          |  |